

# **NCCS Snapshot The Week of April 16, 2007**

**NATIONAL CENTER**  
FOR COMPUTATIONAL SCIENCES



Oak Ridge National Laboratory  
U.S. Department of Energy

# Meeting Charts a Path to the Future

**NCCS users and staff look to petascale and beyond**



- **User Meeting is held March 27-29 at ORNL**
- **More than 70 users attend**
- **Workshops and tutorials cover visualization, scientific data workflow, performance tools, and optimization of codes**
- **User presentations focus on areas such as climate, astrophysics, nanostructures, fusion, groundwater modeling, and nuclear physics**

# Users Now Driving Updated Jaguar

*Exciting performance seen for 119 teraflops system*

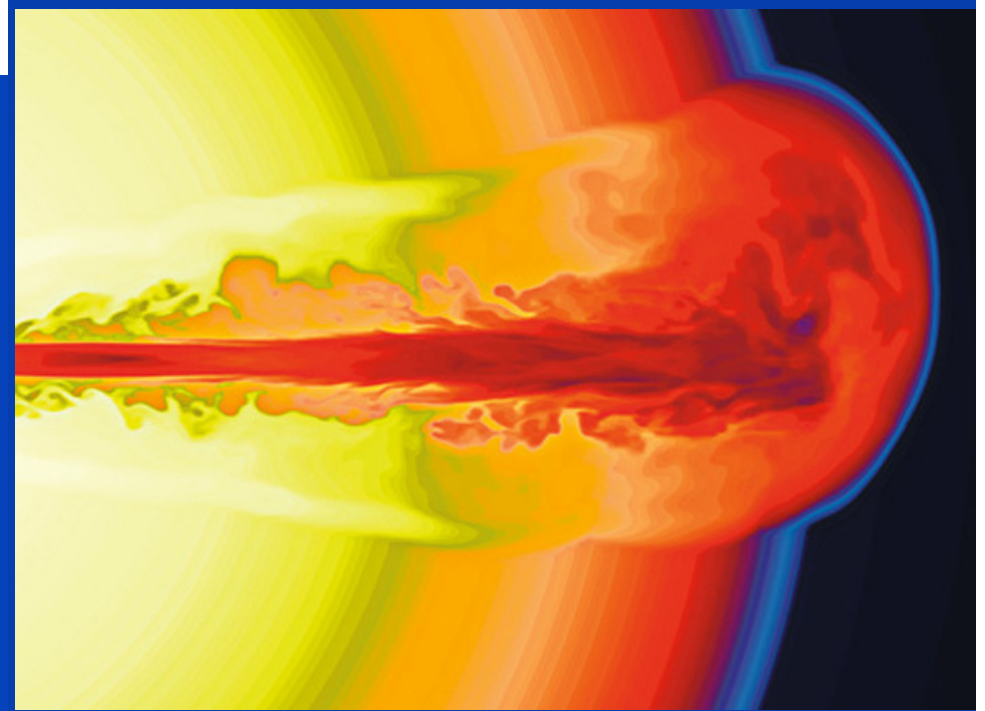
- System has been turned over to users
- Jaguar now has 124 cabinets and 11,708 dual-core AMD processors
- Acceptance testing ran a number of scientific applications for many hours
- Many applications are showing exciting results



*Jaguar (Cray XT4)  
supercomputer*

# ***National Geographic Turns to NCCS Users***

- Article in March issue entitled “Bang: The Cataclysmic Death of Stars”
- Quotes Stan Woosley of the University of California–Santa Cruz and Adam Burrows of the University of Arizona
- Article also includes a visualization from Woosley’s project created from Jaguar simulations (shown above)



***Astrophysicists explain exploding stars***



# HPC Veteran to Lead NCCS Operations

- **Jim Rogers joins NCCS**
- **Has broad experience in HPC and has worked with a variety of supercomputing centers**
- **Will be responsible for day-to-day operation of NCCS systems**
- **Will take over duties from Doug Kothe, who will focus on his role as director of science**



# Staffer Takes NCCS Message to Venerable Technical Society

*Chattanooga Engineers Club founded in 1924*

- Bobby Whitten of the User Assistance and Outreach Group discusses NCCS systems and research
- Talk organized through ORNL Speakers Bureau
- Members interested in both machine specifications and scientific output

*Bobby Whitten*

